

insert therefor --claim 1--.

Claim 6, line 1, delete "any preceding claim" and
insert therefor --claim 1--.

Claim 7, line 1, delete "any preceding claim" and
insert therefor --claim 1--.

Claim 8, line 1, delete "any preceding claim" and
insert therefor --claim 1--.

Claim 9, line 1, delete "any preceding claim" and
insert therefor --claim 1--.

Claim 12, line 1, delete "or claim 11".

A2 13. (Amended) A nucleic acid according to [any one of
claims 10 to 12] claim 10 wherein at least one of said one or
more reductive enzymes is from a different polyketide synthase.

Claim 14, lines 1 and 2, delete "any preceding claim"
and insert therefor --claim 1--.

A3 15. (Amended) A host cell transfected, transformed or
conjugated with a nucleic acid [or vector] as defined in [any
preceding] claim 1.

18. (Amended) A method for producing a nucleic acid
encoding a novel polyketide synthase, the method including the
steps of:

- AA
- i. providing a nucleic acid as defined in [any
one of claims 1 to 8] claim 1; and
 - ii. incorporating into said nucleic acid a

nucleic acid sequence which encodes at least one reductive enzyme.

AA
Cont.

19. (Amended) A method according to claim 18 wherein said nucleic acid sequence encoding at least one reductive enzyme is as defined in [any one of claims 9 to 13] claim 9.

24. (Amended) A method for producing a polyketide, the method including the steps of:

A5

i. providing a fermentation product resulting from the method of claim 20[, or a fermentation product according to any of claims 21-23]; and

ii at least partially purifying a polyketide from said fermentation product.

Please add new claims 28 and 29, as follows:

28. A host cell transfected, transformed or conjugated with a vector as defined in claim 14.

A6

29. A method for producing a polyketide, the method including the steps of:

i. providing a fermentation product which contains a B₁ avermectin substantially free of B₂ avermectins; and

ii. at least partially purifying a B₁ avermectin from said fermentation product.
